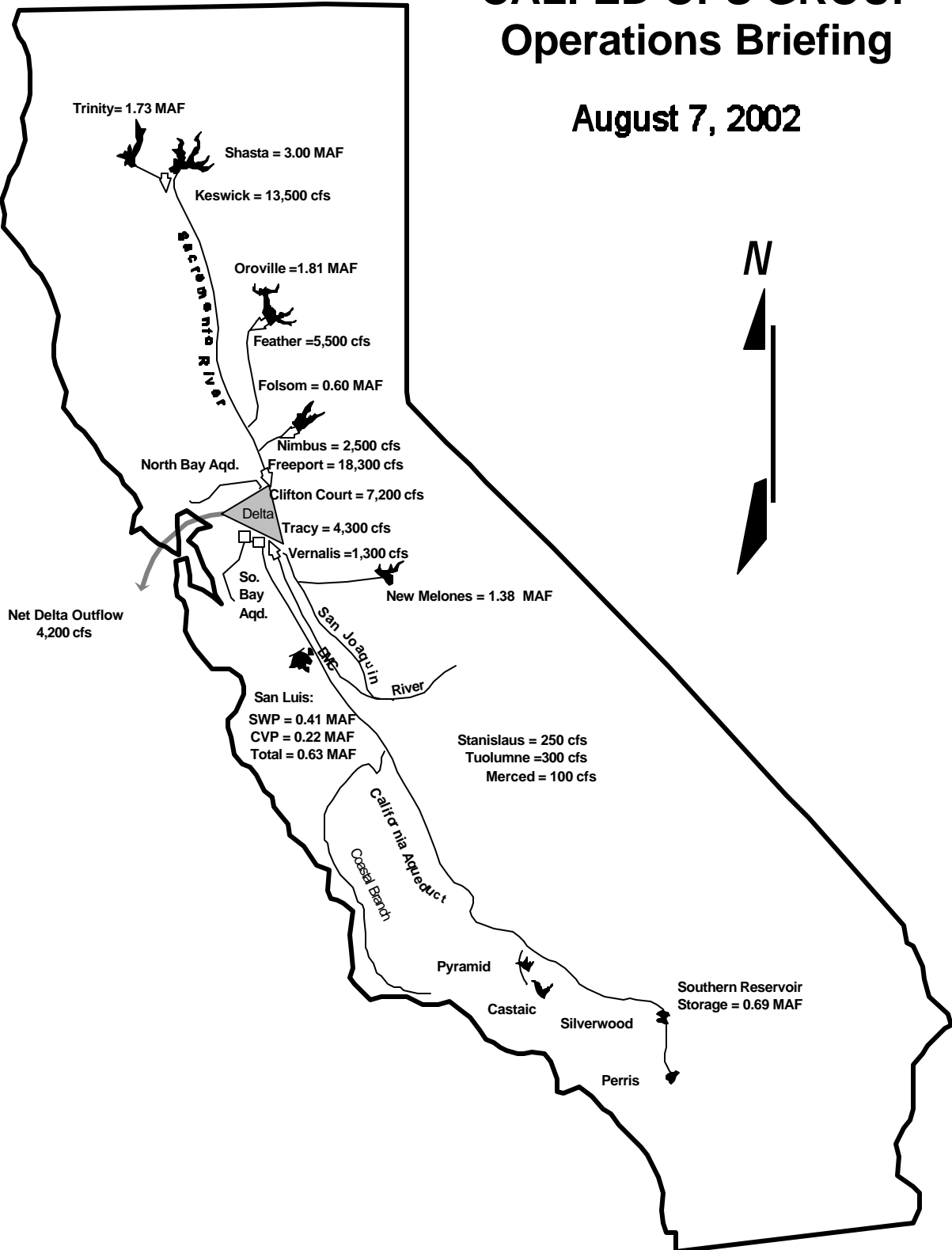


CALFED OPS GROUP Operations Briefing

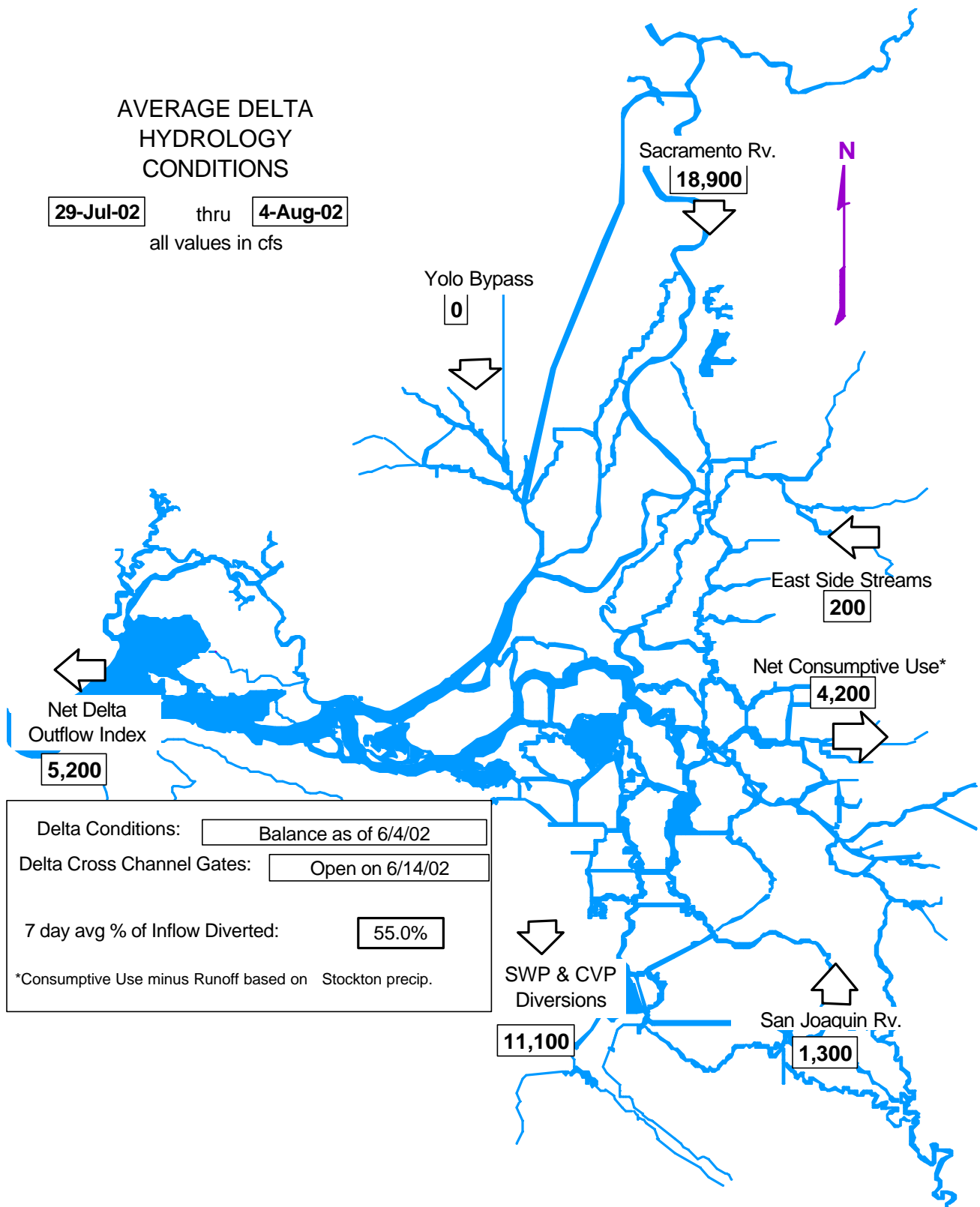
August 7, 2002



AVERAGE DELTA HYDROLOGY CONDITIONS

29-Jul-02 thru **4-Aug-02**

all values in cfs



Delta Conditions: Balance as of 6/4/02

Delta Cross Channel Gates: Open on 6/14/02

7 day avg % of Inflow Diverted: 55.0%

*Consumptive Use minus Runoff based on Stockton precip.

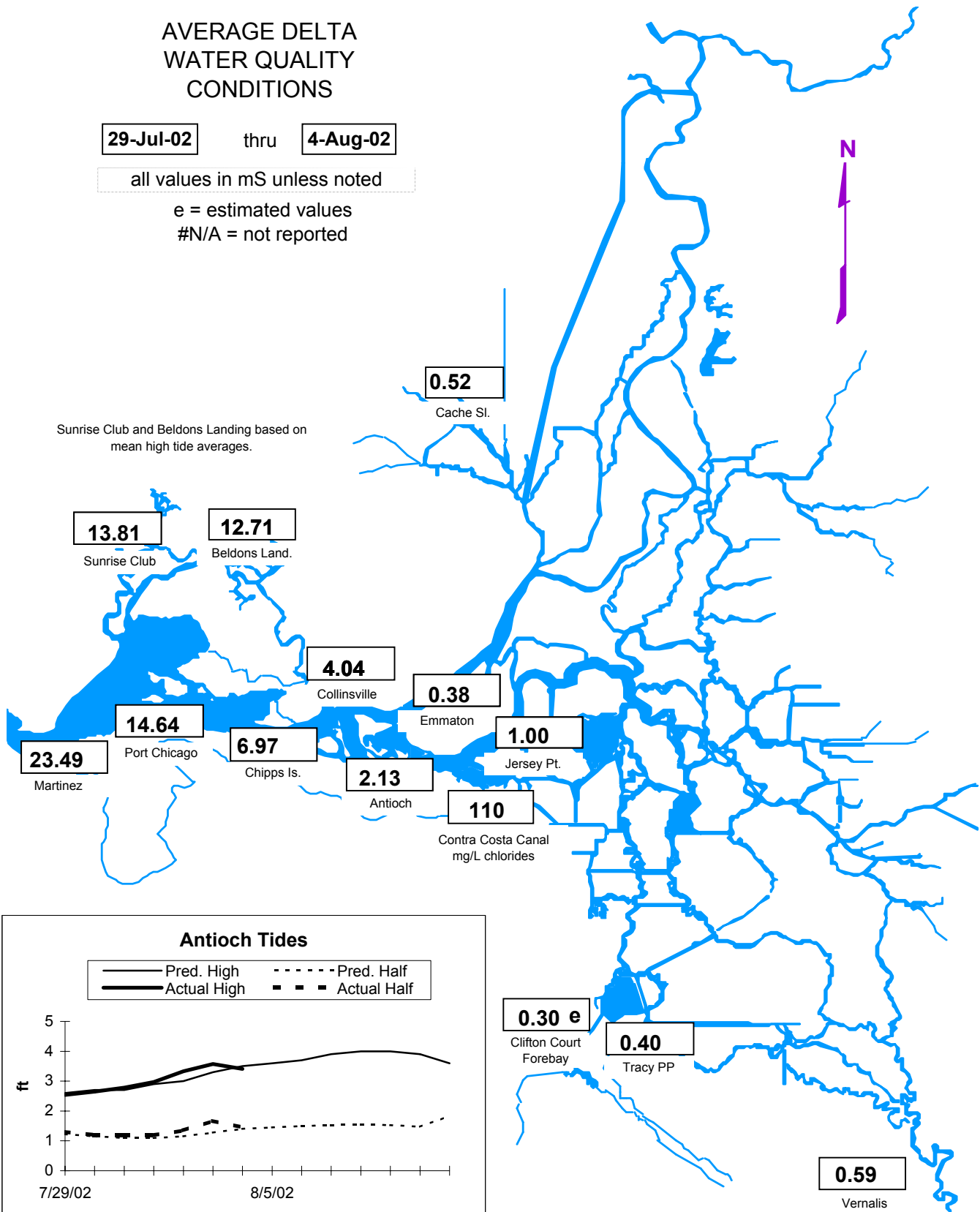
AVERAGE DELTA WATER QUALITY CONDITIONS

29-Jul-02 thru **4-Aug-02**

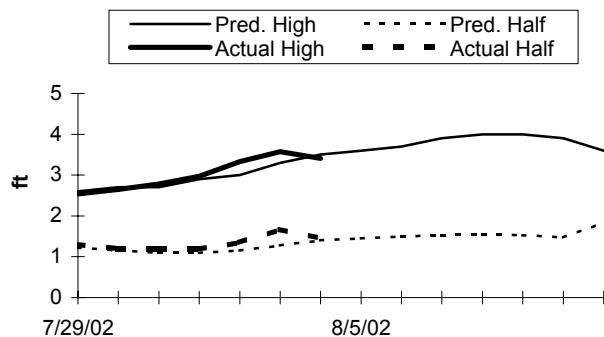
all values in mS unless noted

e = estimated values

#N/A = not reported



Antioch Tides



DRAFT

Bay-Delta Standards

Contained in D-1641

DRAFT

CRITERIA	Jul 02	Aug 02	Sep 02
FLOW/OPERATIONAL			
• Fish and Wildlife			
SWP/CVP Export Limits			
Export/Inflow Ratio	65% of Delta Inflow		
Minimum Outflow - mon.	5,000 cfs	3,500 cfs	3,000 cfs
- 7 day avg.	4,000 cfs	2,500 cfs	2,000 cfs
Suisun Marsh			
Habitat Protection Outflow, X2			
River Flows:			
@ Rio Vista - min. mon. avg.			3,000 cfs
- 7 day average			2,000 cfs
@ Vernalis: Base -min. mon. avg.			
- 7 day average			
Delta Cross Channel Gates			
WATER QUALITY STANDARDS			
• Municipal and Industrial			
All Export Locations	Cl <= 250 mg/l		
Contra Costa Canal	Cl <= 150 mg/l for 165 days (Days have been met)		
• Agriculture			
Western/Interior Delta	14-dm <= 0.45 mS/cm EC		
Southern Delta	30-day running average EC <= 0.7 mS		
• Fish and Wildlife			
San Joaquin River Salinity			
Suisun Marsh Salinity			

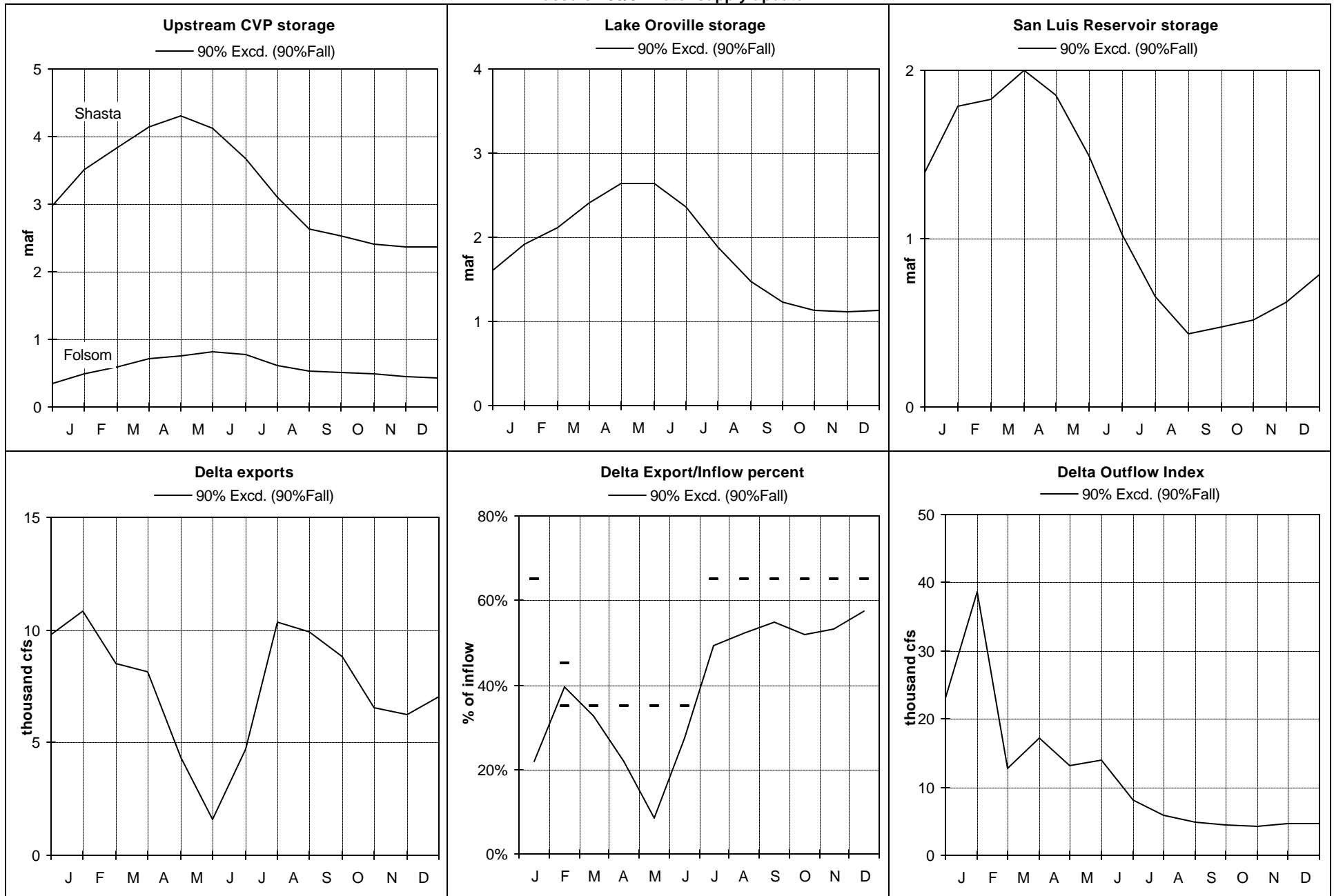
Water Year Classification: (May 1 forecast)

SRI (40-30-30 @ 50%) =6.5 (Dry)

SJV (60-20-20 @75%) =2.3 (Dry)

SWP & CVP WY 2002 Forecasted Operations.

Based on 08/02 water supply update



Flows are monthly averages.

WY 2001/2002 EWA Accounting Summary
Based on August 1 -- 90% Exceedence Hydrology

EWA NOD and SOD Storage																	
1	C/O	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
NOD ⁰	45									145 ^{6,8}							145
SOD																	0

EWA Asset Acquisition in SWP San Luis ¹																	
2	C/O	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
E/I Relaxation			3			76											79
EWA share of SWP gain		3															3
Project Pumping to reduce EWA debt																	0
JPOD using excess flows																	0
JPOD using excess NOD storage																	0
Xfer NOD - Sacramento River ²		4 ³	11 ³							13 ⁶		25 ⁶	4 ⁶				58
Xfer NOD - San Joaquin River ²		12 ⁴	11 ⁴														23
SOD SWP surface purchases		11 ⁵	9 ⁵	12 ⁵						32 ⁷		65 ⁷					130
Exchange of EWA assets							-9 ¹⁴	-31 ¹⁴				20 ¹⁴					-20
Groundwater pumping SOD																	0
Exchange from CVP to SWP in SL																	0
Total Monthly EWA Assets		30	34	12	0	76	-9	-31	0	46	0	110	4	0	0	0	272

EWA Asset Acquisition in CVP San Luis																	
3	C/O	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
E/I Relaxation																	0
Project Pumping to reduce EWA debt																	0
JPOD using excess flows																	0
JPOD using excess NOD storage											44.3 ^{6,8}	22.1 ^{6,8}	0.5 ⁸	2.5 ⁸	2.5 ⁸		72
Xfer NOD - Sacramento River ²																	0
Xfer NOD - San Joaquin River ²																	0
SOD federal surface purchases																	0
Exchange of EWA assets																	0
Groundwater pumping																	0
Exchange from SWP to CVP in SL																	0
Total Monthly EWA Assets	0	0	0	0	0	0	0	0	0	0	44	22	0	2	2	0	72

EWA Expenditures at the Export Pumps																	
4	C/O	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
SWP export cuts					-66 ⁹		-38 ¹³	-28 ¹⁰	-79 ¹⁰	-3							-215
CVP export cuts									-69 ¹¹	-2							-72
Total Expenditures	0	0	0	0	-66	0	-38	-28	-149	-5	0	0	0	0	0	0	-287

EWA End-of-Month Incremental Storage Changes																	
5	C/O	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
SWP in SL (without Source Shift)	7	30	34	12	-66	76	-47	-59	-79	43	0	110	4	0	0	0	65
CVP in SL	0	0	0	0	0	0	0	0	-69	-2	44	22	0	2	2	0	0
NOD Storage	45	-19	-26	0	0	0	0	0	0	128	-55	-59	-6	-3	-3	0	0
Groundwater SOD	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total Incremental Storage Changes	52	11	8	12	-66	76	-47	-59	-149	169	-11	73	-1	-1	-1	0	65

EWA End-of-Month Storage Balance at Various Sites																	
6	C/O	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
SWP in SL (without Source Shift)	7	38	72	84	17	93	46	-13	-92	-49	-49	61	65	65	65	65	
CVP SL	0	0	0	0	0	0	0	0	-69	-72	-28	-5	-5	-2	0	0	
NOD Storage	45	26	0	0	0	0	0	0	0	128	73	14	8	4	0	0	
Groundwater SOD	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
EWA Asset Balance	52	64	72	84	17	93	46	-13	-162	7	-4	69	68	67	65	65	

San Luis Reservoir Storage Conditions																	
7	C/O	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
Total Storage (base case) ¹²		707	884	1302	1790	1832	1982	1857	1565	995	724	438	479	520	626	786	
Encroachment																	
Total Storage (EWA case)		745	955	1386	1807	1925	2028	1844	1403	874	647	493	539	583	691	851	
MWD Source Shifting	29	-10	-10	-9													
Storage (with MWD source shifting)		764	964	1386	1807	1925	2028	1844	1403	874	647	493	539	583	691	851	

⁰ 2001 NOD Storage = 20(PCWA) + 25(MID). 2002 NOD Storage = 135(YCWA) + 10(SGA). June is 135(YCWA) + 10(SGA). YCWA has firm 30 TAF; Exercised options for additional 105

¹ Aqueduct conveyance and evaporation losses are not included.

² Carriage water loss applies to water transfers from the Sacramento River; a 10% conveyance loss applies to water transfers from the San Joaquin River.

Carriage water losses applied to the 2001 water transfers are as follows: 15% for the YCWA and OWID transfers; and 25% for the PCWA transfer.

³ 2001 PCWA Transfer (Joint place of use) ⁴ 2001 MID Transfer (Joint place of use)

⁵ SOD 2001 SWP post lowpoint deliveries = 15(Semiripic/Tulare ID) + 5(Cawelo) + 12(Santa Clara) ⁶ 2002 YCWA Transfer (Joint place of use) ⁷ 2002 KCWA Transfer

⁸ SGA Transfer ⁹ An estimated total of 66 TAF has been expended for the 1/5-1/9 curtailment.

¹⁰ Approximately 45 TAF has been expended for 2002 VAMP (28 TAF in April and 17 TAF in May) for the SWP.

¹¹ Approximately 69 TAF has been expended for 2002 VAMP shoulders for the CVP.

¹² SWP-based upon the 8/01/02 DWR's 90% (90% Fall) allocation study

¹³ Conversion from EWA to Project water since San Luis Reservoir was physically full.

¹⁴ A 2:1 exchange program between the SWC and EWA beginning 3/30/02 and ending 4/8/02.